

JIEJIE MICROELECTRONICS CO., LTD.

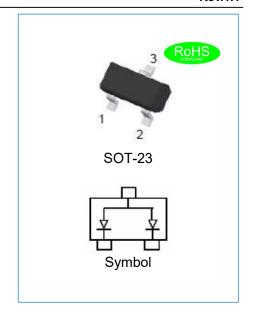
JSPL0230AA

0.2A Schottky Barrier Rectifier

Rev.1.1

DESCRIPTION

- Plastic package has underwriters laboratories flammability classification 94V-0
- ♦ For surface mounted applications in order to optimize board space
- ♦ Lead free in compliance with EU RoHS 2011/65/EU directive
- ♦ Ultra low forward voltage drop
- ♦ Low power losses, high efficiency operation
- ♦ High current capability and surge capability
- ♦ Extremely fast switching speed
- ♦ Low thermal resistance package



MECHANICAL DATA

♦ Case: SOT-23 molded plastic

→ Terminals: Solder plated, solderable per J-STD-002

ABSOLUTE MAXIMUM RATING(Rating at 25℃ ambient temperature unless otherwise specified.)

Parameter	Symbol	JSPL0230AA	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	30	V
Maximum working reverse voltage	V _{RWM}	30	V
Maximum DC blocking voltage	V _{DC}	30	V
Forward continuous current	I _{FM}	0.2	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	0.6	А
Power dissipation	P _D	0.2	W
Maximum junction capacitance V _R =1.0V, f=1MHz	Сл	10	pF
Operating junction temperature range	Tj	-55 to +125	$^{\circ}$
Storage temperature range	T _{stg}	-55 to +150	$^{\circ}$



Parameter		Symbol	Min.	Тур.	Max.	Unit
Reverse breakdown voltage	I _R =100μA	V_{BR}	30	-	-	V
	I _{F1} =0.1mA	V _F	-	-	0.24	V
Forward voltage	I _{F2} =1mA		-	-	0.32	
	I _{F3} =10mA		-	-	0.40	
	I _{F4} =30mA		-	-	0.50	
	I _{F5} =100mA		-	-	1.00	
Reverse voltage leakage current	V _R =25V	I _R	-	-	2	μA
Reverse recovery time		t _{rr}	-	-	5	ns

THERMAL RESISTANCES

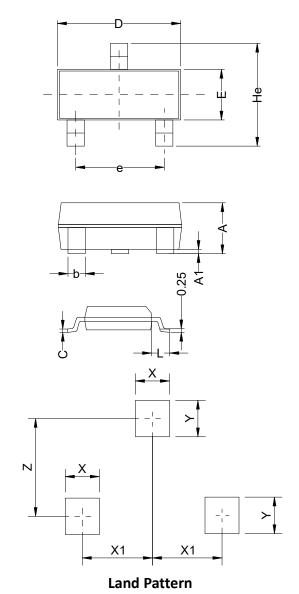
Symbol	Parameter	JSPL0230AA	Unit
R _{th(j-a)}	Thermal resistance from junction to ambient	500	°C/W

MARKING

Part Number	Marking Code		
JSPL0230AA	KL2		



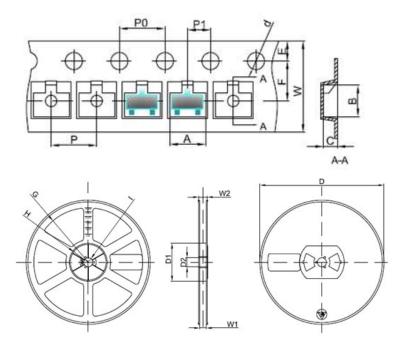
PACKAGE MECHANICAL DATA



0	Millimeters			Inches		
Symbol	Min.	Тур.	Max.	Min.	Тур.	Max.
А	0.90	1.063	1.15	0.035	0.042	0.045
A1	0.00	0.075	0.14	0.000	0.003	0.006
b	0.30	0.40	0.50	0.012	0.016	0.020
С	0.07	0.10	0.15	0.003	0.004	0.006
D	2.80	2.90	3.00	0.110	0.114	0.118
е	1.80	1.90	2.00	0.071	0.075	0.079
Е	1.20	1.30	1.40	0.047	0.051	0.055
L		0.55REF	.55REF 0.022REF			=
He	2.25	2.40	2.55	0.089	0.094	0.100
Х	0.80		0.031			
X1	0.95		0.037			
Υ	0.80		0.031			
Z		2.02 0.080				



TAPE AND REEL SPECIFICATION-SOT-23



Packaging Description:

SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative(carbon filled) polycarbonate resin. The cover tape is a multilayer film(heat activated adhesive in nature)primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000units per 7" or 17.8cm diameter reel. The reels are clear in color and made of polystyrene plastic(anti-static coated).

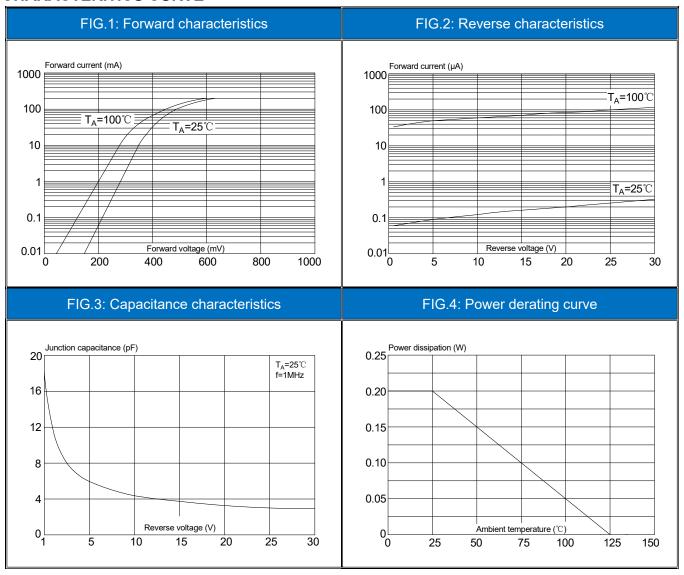
Corrects of	Millimeters	Inches
Symbol	Тур.	Тур.
А	3.15	0.124
В	2.77	0.109
С	1.22	0.048
d	Ф1.50	Ф0.059
E	1.75	0.069
F	3.50	0.138
P0	4.00	0.157
Р	4.00	0.157
P1	2.00	0.079
W	8.00	0.315
D	Ф178	Ф7.008
D1	54.40	2.142
D2	13.00	0.512
G	R78.00	R3.071
Н	R25.60	R1.008
I	R6.50	R0.256
W1	9.50	0.374
W2	12.30	0.484

ORDERING INFORMATION

OUTLINE	PACKAGE TYPE	QUANTITY REEL	DESCIPTION
TAPING	SOT-23	3,000	7 inch reel pack



CHARACTERITICS CURVE





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